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In re application of Jingrui Wu et al.

Art Unit: 1638

**CENTRAL FAX CENTER** 

Serial No: 10/678,588 Filed: 10/02/2003

Examiner: Vinod Kumar

APR 2 8 2006

For: Yield-Improved Transgenic Plants

## Request for Correction of Inventorship under 37 C.F.R. § 1.48(c)

Commissioner for Patents

Dear Sir:

The claims in the above-referenced nonprovisional application have been amended to claim subject matter that was disclosed, but not claimed, in the application as originally filed, and which requires correction to add inventors not named in the application.

Therefore, it is hereby requested that Kristine Hardeman, Michael Edgerton and Thomas LaRosa be added as inventors for Application No. 10/678,588, by the filing of this Request which is supported by

- (1) a statement from each of the three inventors being added that their addition is necessitated by amendment of the claims and that the inventorship error occurred without deceptive intention on his or her part;
  - (2) written consent of the assignee, Monsanto Technology;
- (3) a processing fee transmittal for payment of the \$130.00 processing fee specified in 37CRF 1.17(i) for correcting inventorship under §1.48; and

(4) a declaration by the actual inventors as required by 37 C.F.R. § 1.63.

05/01/2006 FFØNAETA 00000948 134125

01 FC:14E4

Thomas E. Kelley

Registration No. 29,938

Respectfully submitted,

Applicant's Attorney Phone: 860-572-5274

In re application of Jingrui Wu et al.

Serial No: 10/678,588 Filed: 10/02/2003

For: Yield-Improved Transgenic Plants

Art Unit: 1638

Examiner: Vinod Kumar

### Statement of Lack of Deceptive Intent Pursuant to 37 C.F.R. § 1.48(c)

Commissioner for Patents Washington, D.C. 20231

Sir:

The above-referenced non-provisional application, as filed, disclosed unclaimed subject matter by an inventor or inventors not named in the application, i.e. Michael Edgerton, Thomas LaRosa and Kristine Hardeman. The application is being amended to add claims to that subject matter and name the correct inventors. Accordingly, as an added inventor I say that the addition of inventors is necessitated by the amendment of the claims and that the inventorship error occurred without deceptive intent on my part.

Respectfully submitted,

18 April 2006 Date

In re application of Jingrui Wu et al.

Art Unit: 1638

Serial No: 10/678,588

Examiner: Vinod Kumar

Filed: 10/02/2003

For: Yield-Improved Transgenic Plants

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Commissioner for Patents Washington, D.C. 20231

Sir:

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Respectfully submitted,

Krietine Huyleman

Date

In re application of Jingrui Wu et al.

Serial No: 10/678,588 Filed: 10/02/2003

For: Yield-Improved Transgenic Plants

Art Unit: 1638

Examiner: Vinod Kumar

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Commissioner for Patents Washington, D.C. 20231

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Respectfully submitted,

In re application of Jingrui-Wu et al.

Scrial No: 10/678,588 Filed: 10/02/2003

For: Yield-Improved Transgenic Plants

Art Unit: 1638

Examiner: Vinod Kumar

### Consent of Assignee to Correction of Inventorship

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Attention: Director of OIPE

Sir:

On behalf of Monsanto Technology LLC, I hereby give consent to the addition of Kristine Hardeman, Michael Edgerton and Thomas Lakosa as inventors in the above-referenced non-provisional application.

Monsanto Technology LLC

Page 1 of 6

Atty. Docket No. 38-21(52578)C

### Combined Declaration and Power of Attorney for Application Serial No. 10/578/588

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention relating to Yield-Improved Transgenic Plants, the specification of which was filed on October 2, 2003 as United States Application Number 10/678,588, including the claims as amended in the Listing of Claims shown below.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended in the Listing of Claims shown below.

Lacknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

Thereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

60/463,787	04/1 <u>8/2003</u>		
(Application No.)	(Filing Date)		
60/425.157	11/08/2002		
(Application No.)	(Filing Date)	•	
60/415,758_	10/02/2002		_
(Application No.)	(Filing Date)		

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112.1 acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

09/865,439	<u>05/29/2001</u>	abandoned on Nov 18, 2003
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)

I hereby appoint the practitioners associated with Customer No. 27161 and 28381 as my attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and helief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Page 2 of 6

Atty. Docket No. 38-21(52578)C

# Combined Declaration and Power of Attorney for Application Serial No. 10/578/588

#### Listing of Claims:

Claim 1 - A method for improving yield in a crop exposed to water deficit by providing a transgenic seed for said crop wherein said transgenic seed has a recombinant DNA construct expressing a gene which encodes a Hap3 protein having an amino acid sequence identical to the consensus amino acid sequence of SEQ ID NO:8 wherein said gene is constitutively expressed to produce an effective amount of said protein for water-deficit tolerance functionally equivalent to the water-deficit-tolerance imparted by the protein of SEQ ID NO:2 in corn or SEQ ID NO:6 or SEQ ID NO:7 in soybean.

Claim 2 - A method of claim 1 wherein said crop is corn, soybean, canola, wheat, rice, cotton or grass.

Claims 5 - A method for improving water-deficit survivability of a crop plant comprising introducing into the genome of said plant a recombinant DNA construct expressing a gene which encodes a Hap3 protein having an amino acid sequence identical to the consensus amino acid sequence of SEQ ID NO:8 wherein said gene is constitutively expressed to produce an effective amount of said protein for water-deficit tolerance functionally equivalent to the water-deficit-tolerance imparted by the protein of SEQ ID NO:2 in corn or SEQ ID NO:6 or SEQ ID NO:7 in soybean.

Claim 6 - A water-deficit-tolerant, transgenic, hybrid maize plant comprising a recombinant DNA construct expressing a gene which encodes a Hap3 protein having an amino acid sequence identical to the consensus amino acid sequence of SEQ ID NO:8 wherein said gene is constitutively expressed to produce an effective amount of said protein for water-deficit tolerance functionally equivalent to the water-deficit-tolerance imparted by the protein of SEQ ID NO:2.

Claim 7 - A water-deficit-tolerant, transgenic soybean plant comprising a recombinant DNA construct expressing a gene which encodes a Hap3 protein having an amino acid sequence identical to the consensus amino acid sequence of SEQ ID NO:8 wherein said gene is constitutively expressed to produce an effective amount of said protein for water-deficit tolerance functionally equivalent to the water-deficit-tolerance imparted by the protein of SEQ ID NO:6 or SEQ ID NO:7 in soybean.

Claim 8 - A transgenic maize seed for producing the water-deficit-tolerant, transgenic, hybrid maize of claim 6 having in its genome a recombinant DNA construct which expresses a gene which encodes a Hap3 protein having a consensus amino acid sequence of SEQ ID NO: 8 and a gene imparting herbicide resistance.

Claim 9 - A seed of claim 8 wherein said gene imparting herbicide resistance provides resistance to an herbicide selected from the group consisting of a glyphosate herbicide, a phosphinothricin herbicide, an oxynil herbicide, an imidazolinone herbicide, a dinitroaniline herbicide, a pyridine herbicide, a sulfonylurea herbicide, a bialaphos herbicide, a sulfonamide herbicide and a gluphosinate herbicide.

Claim 10 - A seed of claim 8 wherein said genome further comprises a recombinant DNA construct which expresses a gene encoding an insecticidal protein.

Claim 11 - A seed of claim 10 wherein said insecticidal protein is a delta endotoxin from *Bacillus thurengienisus*.

Page 3 of 6

Atty. Docket No. 38-21(52578)C

### Combined Declaration and Power of Attorney for Application Serial No. 10/578/588

Listing of Claims (continued)

Claim 12 - A seed of claim 8 wherein said genome further comprises a recombinant DNA construct which is transcribed to RNA which forms gene silencing dsRNA targeted to a crop pest.

Claim 13 - A plant produced from a seed of claim 8.

Claim 14 - A water-deficit-tolerant, transgenic, hybrid maize plant of claim 6 wherein said recombinant DNA comprises a promoter operably linked to native corn DNA encoding the protein with the amino acid sequence of SEQ ID NO:2.

Claim 15 - A recombinant DNA construct comprising a promoter operably linked to native com DNA encoding the protein with the amino acid sequence of SEQ ID NO:2.

Page 4 of 6 Atty. Docket No. 38-21(52578)C

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Inventor's signature Date
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Page 4 of 6

Atty. Docket No. 38-21(52578)C

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Page 4 of 6

Atty. Docket No. 38-21(52578)C

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Page 5 of 6

Atty. Docket No. 38-21(52578)C

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Page 5 of 6

Atty. Docket No. 38-21(52578)C

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Page 5 of 6

Atty. Docket No. 38-21(52578)C

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Inventor's signature	Date
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	·
Full name of sixth inventor: Donald E. NELSON	
Inventor's signature Oquald C. Nelson	Date 4/5/2006
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Page 6 of 6

Atty. Docket No. 38-21(52578)C

ful) name of seventh in	ventor: Michael D. BDGERTON
inventor's signature	1206 Date 4 April 2006
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Full name of ninth in	entor: Kristine HARDEMAN
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Page 6 of 6

Atty. Docket No. 38-21(52578)C

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Full name of eighth inventor: Thomas J. L.A ROSA
Inventor's signature The Apr. 15, 2006
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Full name of ninth inventor: Kristine BARDEMAN
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Page 6 of 6

Atty. Docket No. 38-21(52578)C

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Full name of eighth inventor: Thomas J. 1.A ROSA
Inventor's signature Date
Residence Fenton, Missouri
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Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA
Full name of ninth inventor: Kristine HARDEMAN
Inventor's signature Kristine Thordom an Date 11-6-06
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